Message

From: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]
Sent: 10/9/2018 12:25:00 PM
To: Bodnar, Wanda M [wanda_bodnar@unc.edu]
CC: Surratt, Jason D. [surratt@unc.edu]
Subject: RE: synthesis help

October 31st would be fine.

In addition some time before then would work for me as well.

Let me know.

Mark

From: Bodnar, Wanda M [mailto:wanda_bodnar@unc.edu]
Sent: Monday, October 08, 2018 5:01 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Surratt, Jason D. <surratt@unc.edu>
Subject: RE: synthesis help

Hi Mark,
Jason asked me last week to get in touch with you; sorry, this is the first chance I've had. We would definitely like to visit your lab and talk about how we can help each other. I agree with Jason that Zhenfa and Avram are phenomenal resources. Zhenfa has synthesized some critical standards for our Superfund Research Program in the past. He has access to mass specs in our lab and NMR in another department. Please let us know when would be a convenient time for a visit. If you have time on October 31st, that would be great.
Thank you,
Wanda

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(919) 843-0182
Preferred pronouns: she, her, hers

From: Surratt, Jason D.
Sent: Monday, October 8, 2018 4:42 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Zhang, Zhenfa <zhenfaz@email.unc.edu>; Gold, Avram <golda@email.unc.edu>
Subject: Re: synthesis help

Dear Mark,

Thanks for your email and I apologize for my slow reply. I was really swamped last week with things non-related to PFAS.

I've forwarded your email to my close colleagues Professors Zhenfa Zhang and Avram Gold. They are also copied here. I tend to fund
Zhenfa Zhang to work with my lab to help us with our ongoing synthesis needs. He is very talented. They will likely respond to you very soon.
I know they are reviewing your email carefully first and get back to you with their thoughts on feasibility and any specific questions.

Just as a heads up, it seems like I'll be presenting a seminar on Oct 31 at 10 AM to the Air group at EPA. Dr. Theran Riedel (my
former Post Doc) appears to be organizing it. Maybe I can stop by to see your lab that day? We can keep it brief.

Also, Wanda and I may be contacting you very soon. I think we would like to see what PFAS standards you might have that we can use
and share with other PFAST Network researchers.

Most sincerely, Jason

Jason D. Surratt, Ph.D.
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On Oct 2, 2018, at 8:07 AM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

Hi Jason,

I hope you have got some time to rest since the meeting on Friday. I thought it was well done and covered a lot of important ground.

I am emailing to start the discussion of our need to get some standards synthesized and follow-up on isolation of chemicals from industrial products. Setting up a visit to you labs for a crew of us would be great too.

My most pressing need is the synthesis of a chemical we find in the water in Wilmington and in the serum of humans exposed. We call it Nafion BP2. It is the second chemical below. We have received a small amount of this chemical from Chemours (~80 mg) about 1 year ago. We are now conducting experiments on dosed rodents that require a lot of chemical so our stock is all but used up.

I know we can get this chemical from a commercial vendor. It is $395 for 5 grams.
http://synquestlabs.com/product/id/52754.html

<image001.jpg>

We need Nafion BP2 (here below)
<image002.png>
As you can see this requires the removal of the acyl fluoride and replacement with a H. In addition the sulfonyl fluoride needs to be turned into a sulfonate. I believe if this was simply put in water the acyl fluoride and sulfonyl fluoride go to the corresponding carboxylic acid and sulfonate. I also know for other PFAS the decarboxylation can occur via thermal or chemical attack.

I welcome your response. We have hands in the lab to help out or conduct this synthesis. What we lack is knowledge of how and the equipment to perform this experiment. Please do get back to us when you have a chance.

Thanks,
Mark

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